







Twins but not identical







- Light (X-rays)
- Swedish



- MAX-lab since 1987 MAX IV from 2016
- ..., microscopy, chemical bonds, ...

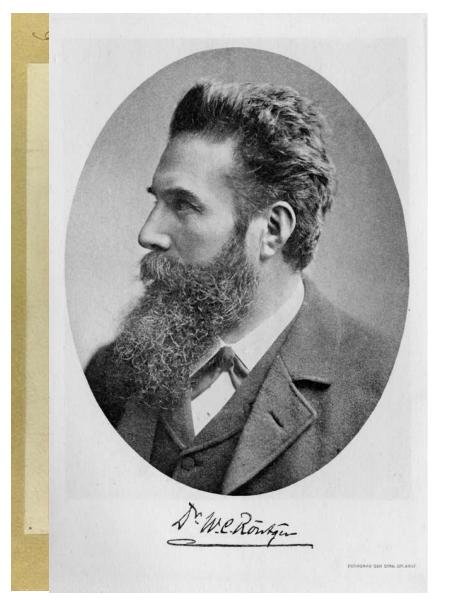
- **Neutrons** (from atomic nucleus)
- 13 member states === (SWE, DK, NOR, ...)

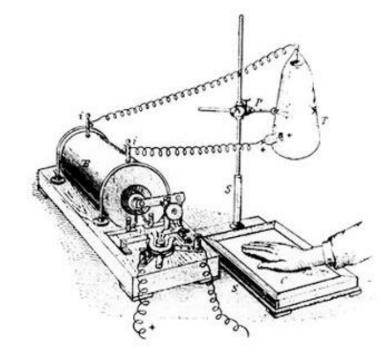


- Building started Sep 2nd 2014 Science starts ≈2023
- ..., large & thick samples, H/D-substiution, ...



Röntgenstrålning





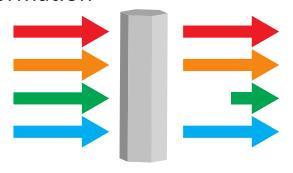




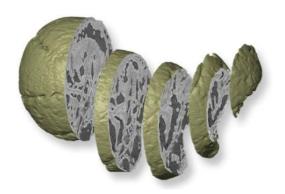




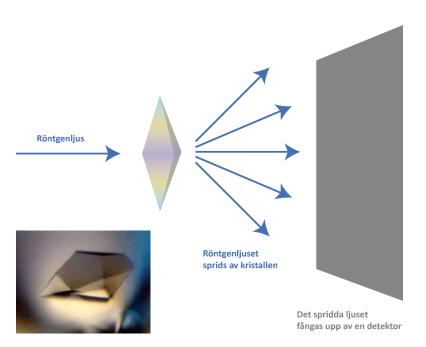
Spectroscopy – chemical, electrical, magnetical information



Imaging – Microscopy and tomography



Scattering – structures, on all levels from atomic to micrometer level









MAX IV beamlines October 2020

Gas phase & luminescence

Legend: **User operation Commissioning** Construction

SPF - FemtoMAX

303 - NanoMAX

3.0 GeV Ring

NanoMAX

Nanofocus & coherence

DanMAX ===

Imaging & diffraction

Balder

EXAFS & RIXS

ForMAX

Wood based material

CoSAXS

SAXS & coherence

BioMAX

Protein structure

MicroMAX

Protein structure fonden

Veritas

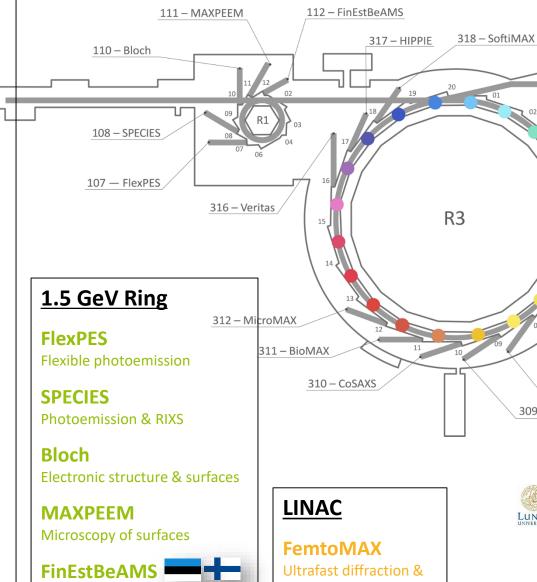
Excitations in solids & liquids

HIPPIE

Operando spectroscopy

SoftiMAX

Microscopy & coherence





spectroscopy





308 – Balder

309 - ForMAX

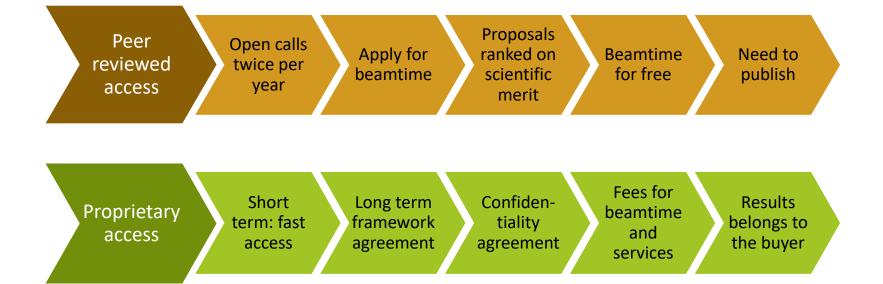


304 - DanMAX



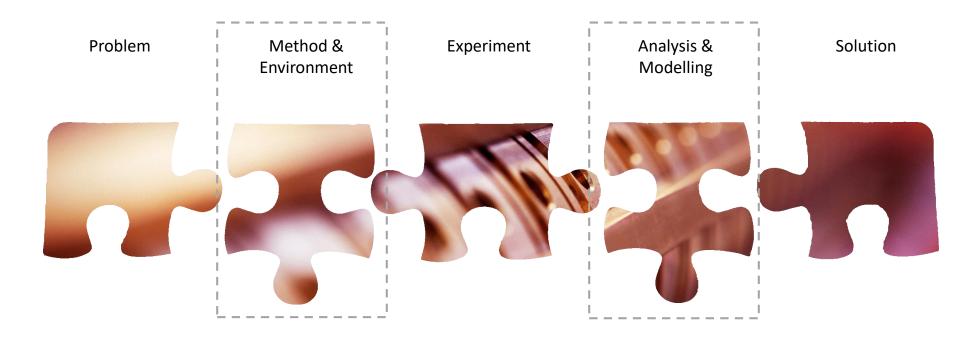


Two types of access





Planning the experiment





Many different routes into MAX IV







Peer-reviewed access for advanced users

Proprietary access for advanced users





ForMAX

Investor access



























MAX IV











Mediated proprietary access

> Proprietary Industry solutions at **MAX IV**

Peer-reviewed access through academic groups









TREESEARCH

EDUCATION

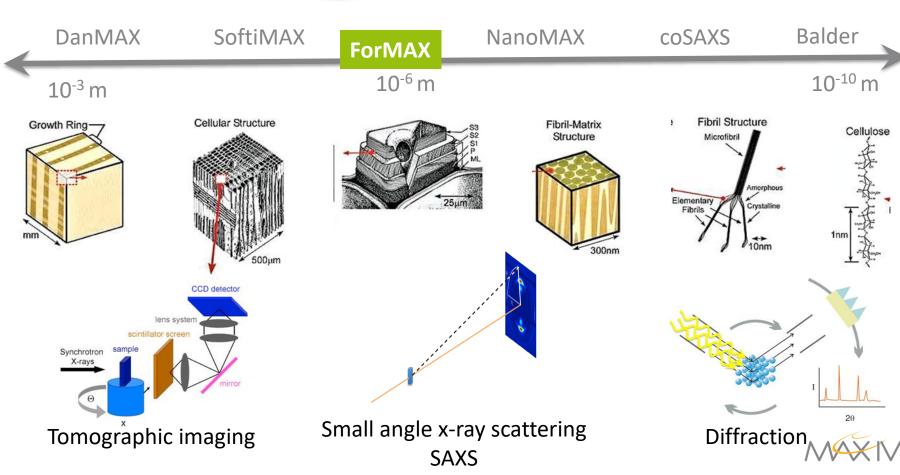
RESEARCH

RESEARCH INFRASTRUCTURE

COLLABORATION

Wood – from Logs to Lignin Molecules















































METALBEAMS













Thank you!

